## AMENDMENTS TO THE CLAIMS

1	1.	(Currently Amended) A computer-implemented method for buffering data in a
2		multithreaded environment, comprising:
3		generating log data in response to a request for accessing a resource;
4		identifying a buffer management structure that is associated with a plurality of
5		data buffers;
6		reading a last-buffer index value that is associated with the buffer management
7		structure, wherein said last buffer index value provides information that
8		identifies a last data buffer that was last used for buffering data;
9		incrementing the buffer index value;
10		locating a buffer array entry that is associated with the buffer index value;
11		determining whether the buffer array entry indicates a particular value;
12		if the buffer array entry does not indicate the particular value, then attempting to
13		obtain a lock on a particular data buffer that is associated with the buffer
14		array entry; and
15		if the buffer array entry indicates the particular value, then incrementing the
16		buffer index value.
17		selecting a data buffer that is associated with said buffer management structure
18		based on said last buffer index value.
1	2.	(Currently Amended) The method of Claim 1, further comprising:
2		if the attempt to obtain the lock on the particular data buffer succeeds, then
3		updating the buffer array entry to indicate the particular value maintaining
4		a data structure that is associated with said plurality of data buffers,
5		wherein the data structure is associated with a group of flags that provide
6		an indication as to whether an entry in said data structure is likely to be
7		associated with a data buffer that is available for storing said log data; and

٥		prior to writing said log data, reading a mag associated with a particular data
9		structure entry to determine whether said particular data structure entry is
10		likely associated with a data buffer that is available for storing said log
11		<del>data.</del>
1	3.	(Currently Amended) The method of Claim 1, further comprising:
2		receiving a connection request from a client;
3		assigning a thread of execution to process said connection request; and
4		wherein the step of identifying a buffer management structure further comprises
5		the step of said thread of execution selecting said a particular buffer
6		management structure from a plurality of buffer management structures,
7		wherein said plurality of buffer management structures are each associated
8		with a set of data buffers that are used for buffering data to a physical
9		memory unit;
10		wherein the buffer index value is associated with the particular buffer
11		management structure.
1	4.	(Currently Amended) The method of Claim 1, wherein further comprising:
2		generating log data in response to a request for accessing a resource, wherein said
3		resource represents one or more sets of content that are associated with a
4		network server; and
5		the step of identifying a buffer management structure comprises the step of
6		selecting said a buffer management structure based on one or more
7		addresses in which said one or more sets of content are stored on said
8		network server.
1	5-6.	(Canceled)

1	7.	(Currently Amended) The method of Claim 1, further comprising the step of
2		writing said log data into said particular data buffer.
1	8-9.	(Canceled)
1	10.	(Currently Amended) The method of Claim 1, further comprising:
2		maintaining said a plurality of data buffers as an array of available buffers; and
3		in response to detecting that a-the particular data buffer contains a particular
4		limited amount of free data space, removing said particular data buffer
5		from said array of available buffers.
1	11.	(Original) The method of Claim 10, wherein the step of removing said particular
2		data buffer from said array of available buffers further comprises linking said
3		particular data buffer into a list of ready-to-write data buffers.
1	12.	(Original) The method of Claim 11, further comprising:
2		removing said particular data buffer from said array of available buffers; and
3		storing on a non-volatile storage unit information contained in said particular data
4		buffer.
1	13.	(Currently Amended) The method of Claim 1, further comprising:
2		maintaining said a plurality of data buffers as an array of available buffers; and
3		wherein the step of selecting a data buffer that is associated with said buffer
4		management structure comprises the step of:
5		in response to determining that no data buffer is available in said array of
6		available buffers for storing said log data, requesting a free data buffer
7		from a global list of free data buffers.
1	14-35.	(Canceled)

1	36.	(New) A computer-readable medium carrying one or more sequences of
2		instructions for buffering data in a multithreaded environment, wherein execution
3		of the one or more sequences of instructions by one or more processors causes the
4		one or more processors to perform the steps of:
5		reading a buffer index value that identifies a data buffer that was last used for
6		buffering data,
7		incrementing the buffer index value;
8		locating a buffer array entry that is associated with the buffer index value;
9		determining whether the buffer array entry indicates a particular value;
10		if the buffer array entry does not indicate the particular value, then attempting to
11		obtain a lock on a particular data buffer that is associated with the buffer
12		array entry; and
13		if the buffer array entry indicates the particular value, then incrementing the
14		buffer index value.
1	27	
1	37.	(New) The computer-readable medium of Claim 36, further comprising
2		instructions for performing the steps of:
3		if the attempt to obtain the lock on the particular data buffer succeeds, then
4		updating the buffer array entry to indicate the particular value.
1	20	
1	38.	(New) The computer-readable medium of Claim 36, further comprising
2		instructions for performing the steps of:
3		receiving a connection request from a client;
4		assigning a thread of execution to process said connection request; and
5		selecting a particular buffer management structure from a plurality of buffer
6		management structures, wherein said plurality of buffer management
7		structures are each associated with a set of data buffers that are used for
Ω		huffering data to a physical memory unit

9		wherein the buffer index value is associated with the particular buffer
10		management structure.
1	39.	(New) The computer-readable medium of Claim 36, further comprising
2		instructions for performing the steps of:
3		generating log data in response to a request for accessing a resource, wherein said
4		resource represents one or more sets of content that are associated with a
5		network server; and
6		selecting a buffer management structure based on one or more addresses in which
7		said one or more sets of content are stored on said network server.
1	40.	(New) The computer-readable medium of Claim 36, further comprising
2		instructions for performing the step of writing log data into said particular data
3		buffer.
1	41.	(New) The computer-readable medium of Claim 36, further comprising
2		instructions for performing the steps of:
3		maintaining a plurality of data buffers as an array of available buffers; and
4		in response to detecting that the particular data buffer contains a particular limited
5		amount of free data space, removing said particular data buffer from said
6		array of available buffers.
1	42.	(New) The computer-readable medium of Claim 41, wherein the step of removing
2		said particular data buffer from said array of available buffers further comprises
3		linking said particular data buffer into a list of ready-to-write data buffers.
1	43.	(New) The computer-readable medium of Claim 42, further comprising
2		instructions for performing the steps of:
3		removing said particular data buffer from said array of available buffers; and

	4		storing on a non-volatile storage unit information contained in said particular data
	5		buffer.
	1	44.	(New) The computer-readable medium of Claim 36, further comprising
:	2		instructions for performing the steps of:
	3		maintaining a plurality of data buffers as an array of available buffers; and
	4	٠	in response to determining that no data buffer is available in said array of
;	5		available buffers for storing said log data, requesting a free data buffer
(	6		from a global list of free data buffers.
	1	45.	(New) A computer system, comprising:
;	2		means for reading a buffer index value that identifies a data buffer that was last
:	3		used for buffering data;
•	4		means for incrementing the buffer index value;
:	5		means for locating a buffer array entry that is associated with the buffer index
•	6		value;
,	7		means for determining whether the buffer array entry indicates a particular value;
;	8		means for attempting to obtain a lock on a particular data buffer that is associated
9	9		with the buffer array entry in response to a determination that the buffer
10	0		array entry does not indicate the particular value; and
1	1		means for incrementing the buffer index value in response to a determination that
12	2		the buffer array entry indicates the particular value.

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